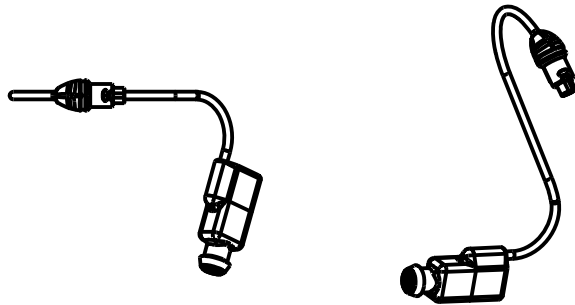
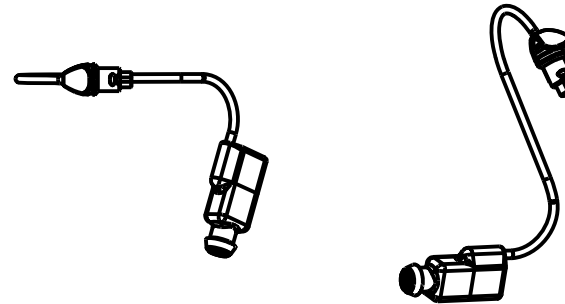


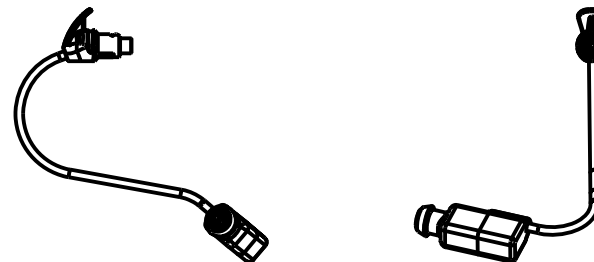
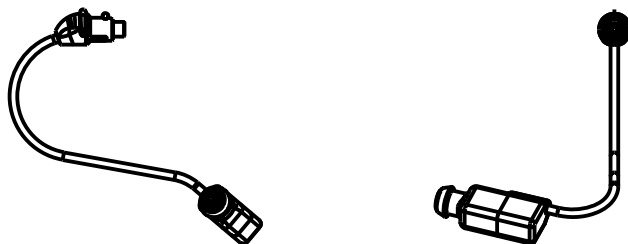
RVA-90080-NXX
SHT 1.1



ISO VIEW:
RVA-90080-N0X SERIES



ISO VIEW:
RVA-90080-N1X SERIES



DIMENSIONS IN MILLIMETERS [INCHES]

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	D
D	C40101531	11-25-14		
SCALE: 1:1			DR. BY OO	DATE 12-8-11
DO NOT SCALE DRAWING			CK. BY GJP	DATE 12-11-11
TITLE: RIE ASSEMBLY		RVA-90080-NXX		APP. BY GJP
GENERIC TEC OUTLINE DRAWING		SHT 1.1		DATE 12-11-11

ASSEMBLY NUMBER	DESCRIPTION	COLOR	CONTACT ASSIGNMENT				WIND SHIELD	RVA-90080-NXX SHT 1.2
			1	2	3	4		
RVA-90080-N01	SIZE 0-BL, (SMALL, LEFT)	BLUE			POS (+)	NEG (-)	NO	
RVA-90080-N02	SIZE 0-BR, (SMALL, RIGHT)	RED			POS (+)	NEG (-)	NO	
RVA-90080-N03	SIZE 1-BL, (MEDIUM, LEFT)	BLUE			POS (+)	NEG (-)	NO	
RVA-90080-N04	SIZE 1-BR, (MEDIUM, RIGHT)	RED			POS (+)	NEG (-)	NO	
RVA-90080-N05	SIZE 2-BL, (LARGE, LEFT)	BLUE			POS (+)	NEG (-)	NO	
RVA-90080-N06	SIZE 2-BR, (LARGE, RIGHT)	RED			POS (+)	NEG (-)	NO	
RVA-90080-N07	SIZE 3-BL, (X-LARGE, LEFT)	BLUE			POS (+)	NEG (-)	NO	
RVA-90080-N08	SIZE 3-BR, (X-LARGE, RIGHT)	RED			POS (+)	NEG (-)	NO	
RVA-90080-N11	SIZE 0-BL, (SMALL, LEFT)	BLUE			POS (+)	NEG (-)	YES	
RVA-90080-N12	SIZE 0-BR, (SMALL, RIGHT)	RED			POS (+)	NEG (-)	YES	
RVA-90080-N13	SIZE 1-BL, (MEDIUM, LEFT)	BLUE			POS (+)	NEG (-)	YES	
RVA-90080-N14	SIZE 1-BR, (MEDIUM, RIGHT)	RED			POS (+)	NEG (-)	YES	
RVA-90080-N15	SIZE 2-BL, (LARGE, LEFT)	BLUE			POS (+)	NEG (-)	YES	
RVA-90080-N16	SIZE 2-BR, (LARGE, RIGHT)	RED			POS (+)	NEG (-)	YES	
RVA-90080-N17	SIZE 3-BL, (X-LARGE, LEFT)	BLUE			POS (+)	NEG (-)	YES	
RVA-90080-N18	SIZE 3-BR, (X-LARGE, RIGHT)	RED			POS (+)	NEG (-)	YES	
RVA-90080-N19	SIZE 4-BL, (XX-LARGE, LEFT)	BLUE			POS (+)	NEG (-)	YES	
RVA-90080-N20	SIZE 4-BR, (XX-LARGE, RIGHT)	RED			POS (+)	NEG (-)	YES	

DIMENSIONS IN MILLIMETERS [INCHES]	Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
				Active	D
	D	C40101531	11-25-14		

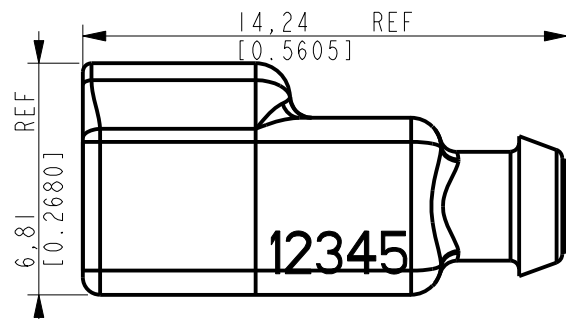
KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.	SCALE: 1:1		DR. BY	DATE
	DO NOT SCALE DRAWING		OQ	12-8-11
	TITLE: RIE ASSEMBLY		CK. BY	DATE
	GENERIC TEC OUTLINE DRAWING		GJP	12-11-11
	RVA-90080-NXX		APP. BY	DATE
	SHT 1.2		GJP	12-11-11

NOTE:

- 1: BELOW VIEW ONLY SHOW LEFT MARKING, RIGHT MARKING IS MIRROR IMAGE.
2: A POSITIVE GOING VOLTAGE AT CONTACT POSITION 3, RELATIVE TO CONTACT POSITION 4, CAUSES A DECREASE IN PRESSURE AT THE SOUND OUTLET.

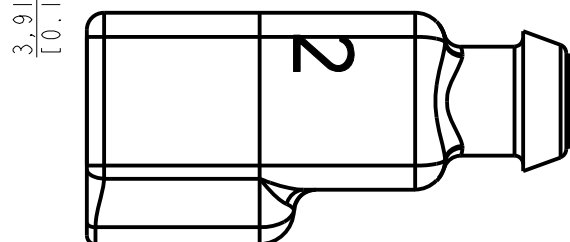
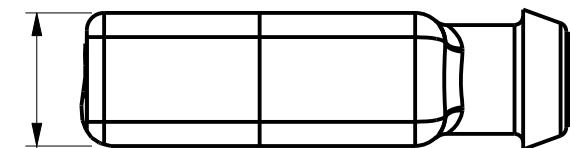
RVA-90080-NXX

SHT 1.3



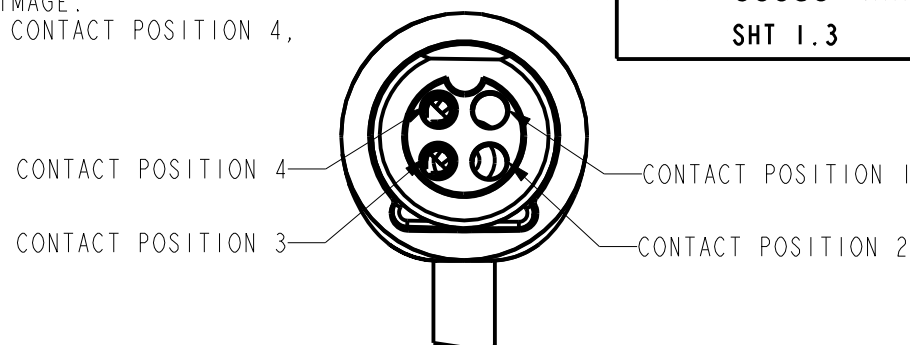
TOP VIEW: RECEIVER DATE CODE MARKING

12 = LAST TWO DIGITS OF THE YEAR (12 = YEAR 2012).
34 = WEEK NUMBER 34.5 = DAY OF THE WEEK.

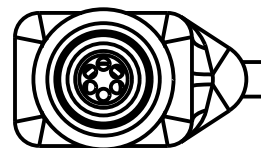


BOTTOM VIEW: SIZE CODE MARKING {P0, P1, P2, P3, P4}
(P = POWER AND 0-4 = SIZE MARKING)

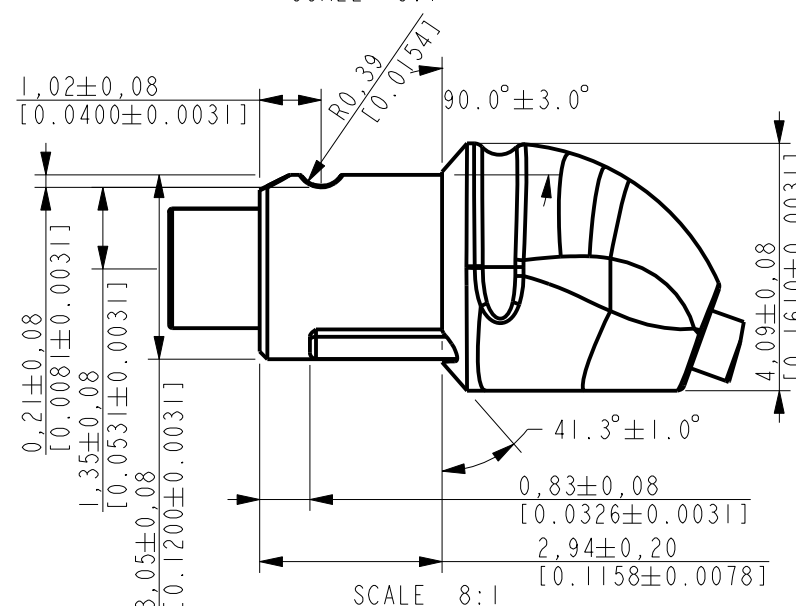
DIMENSIONS IN MILLIMETERS [INCHES]



CONNECTOR POLARITY
SCALE 8:1



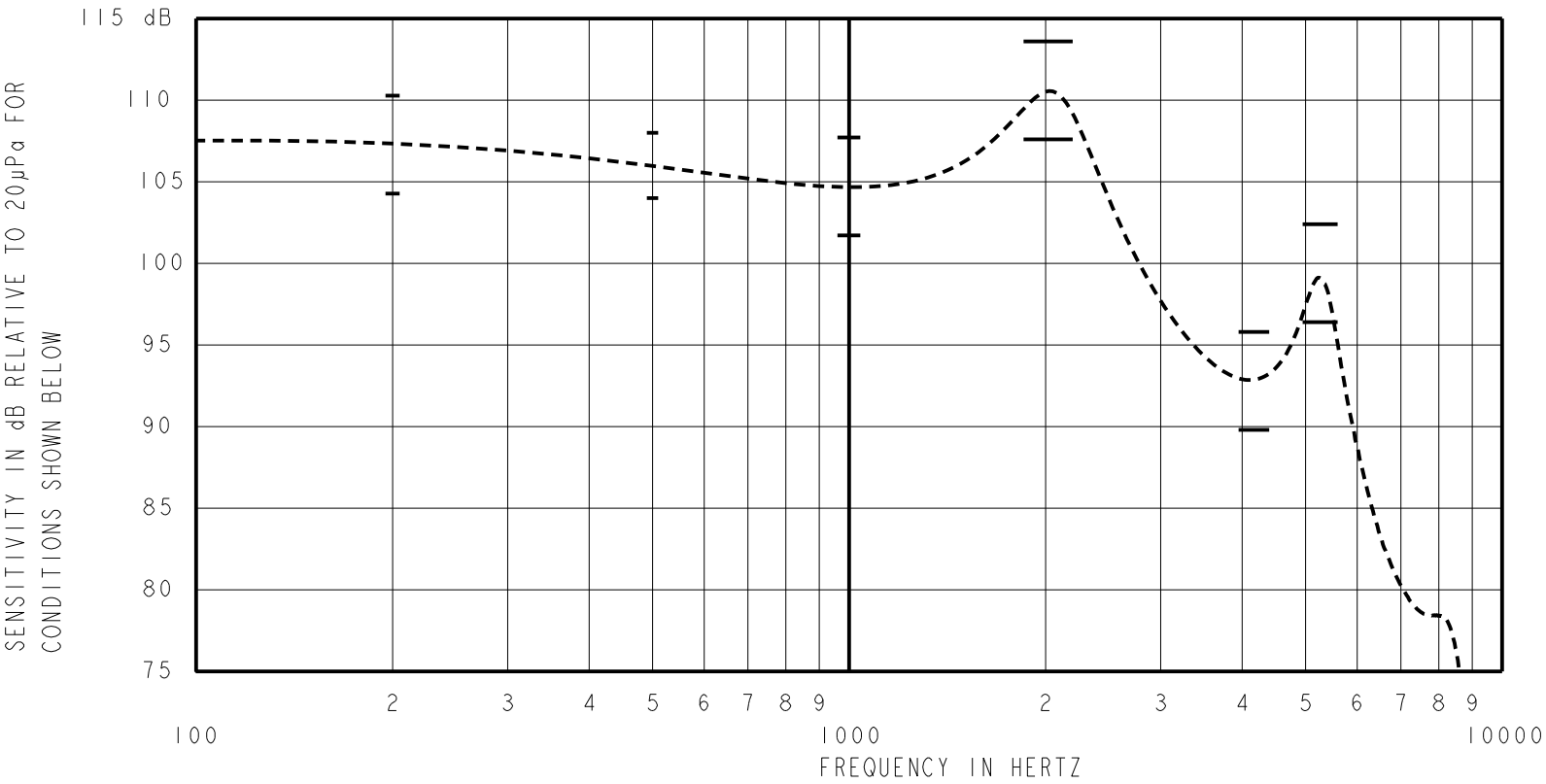
SCALE 9:2



SCALE 8:1

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	D
D	C40101531	11-25-14		
SCALE: 1:1			DR. BY	DATE
DO NOT SCALE DRAWING			OQ	12-8-11
TITLE: RIE ASSEMBLY			CK. BY	DATE
GENERIC TEC			GJP	12-11-11
OUTLINE DRAWING			APP. BY	DATE
			GJP	12-11-11
			RVA-90080-NXX	
			SHT 1.3	

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ACOUSTICAL
SENSITIVITY
DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITIONS DESCRIBED IN TABLE 3.

LIMIT TYPE	FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
ENV	200	104.3	107.3	110.3
ENV	500	104.0	106.0	108.0
ENV	1000	101.7	104.7	107.7
PEAK	1830-2230	107.6	110.6	113.6
VALLEY	3700-4520	89.8	92.8	95.8
PEAK	4760-5810	96.4	99.4	102.4

TABLE 1

TOTAL HARMONIC DISTORTION
DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	AC DRIVE (Vrms)	DC BIAS (V)	MAX (%)
675	0.109	0	5.0
1013	0.109	0	5.0
1013	0.218	0	10.0
675	0.218	0	10.0

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.109 V rms, 0 V DC BIAS
SOURCE IMPEDANCE	<1 Ohm
TUBING	NONE
COUPLER CAVITY	2 CM ³ , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5)

TABLE 3

ELECTRICAL

DC RESISTANCE @ 20°C	23.0 Ohm ± 15%
IMPEDANCE @ 500 Hz	29.0 Ohm ± 15%
IMPEDANCE @ 1000 Hz	46.0 Ohm ± 15%

TABLE 4

TEMPERATURE
OPERATING: SENSITIVITY AT 500 Hz WILL NOT VARY MORE THAN +1/-3 dB FROM -17°C TO 63°C
STORAGE: -40°C TO 63°C

MECHANICAL
SOLDER TYPE: SAC305

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	D
D	C40101531	11-25-14		
WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION			DR. BY OQ	DATE 12-8-11
TITLE: RIE ASSEMBLY GENERIC TEC PERFORMANCE SPECIFICATION			CK. BY GJP	DATE 12-11-11
			APP. BY	DATE
			GJP	12-11-11
			RVA-90080-NXX SHT 2.1	

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